

**PROJECT:** Midnite Mine Remediation**REPORT NO:** 2021-16**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period July 9 – 15, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

**SITE HEALTH, SAFETY, AND SECURITY**

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period July 9 – 15, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: There were no incident for this week.			

**COMMUNITY LIAISON**

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.
- STOI Burn Ban and Hoot Owl resolution 2021-377 effective July 1, 2021 – Construction activities for Midnite Mine may continue past the 13:00hr out-of-the woods restriction.

**PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS****Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 14 July 2021 at 10:00;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

**Meeting Action Items:**

- As the EPA requested, the slide of initial Final Status gamma survey results for the South Construction Support Zone and Pit 4 Overburden Upper Area was emailed to the EPA on 14 July.

#### EPA Plan/Document Approvals:

- EPA provided verification of continued acceptability for off-site disposal of the water treatment plant sludge on 15 July.

#### Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 12-15 July.

## REMEDIAL WORK ACTIVITIES

#### Construction:

During the week of July 9 – 15, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP), the Pit 4 Overburden Pile and the South Construction Support Zone (CSZ). Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- Newmont extended the west Infiltration Collectors in Pit 4.
- Newmont installed a section on the Pit 4 Dewatering Risers.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel, Liner Bedding and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel, Liner Bedding, and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis. The sample of Liner Bedding material did not meet project specifications. Stantec is currently evaluating the liner bedding material represented by the sample.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 9 July. Visible dust from the crushing operation conformed with project requirements.
- Newmont welded 10-inch HDPE pipe for the Pit 3 dewatering system.
- WME and Nile Environmental performed the final status gamma survey of the upper Pit 4 Overburden Pile and to extend the South Construction Support Zone survey area to the toe of the SWRP.
- Hi-Tech Rockfall scaled the walls of Pit 3 outside the areas protected by wire mesh drapery and attenuator systems.
- Newmont and Electrotech Solutions continued commissioning of the South Pond Pump Station.
- Halme Construction installed the effluent pipeline between Stations 14+63 and 34+55.
- Halme Construction continued clearing and grubbing the effluent pipeline alignment along the New Access Road and Blue Creek Road.
- Halme Construction continued hauling bedding material for the effluent pipeline and staging the material along the New Access Road.

**Table 1 – 2021 Production Estimates**

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	50,876	284%	365,697	555,548	152%	73%
HSWRP	1,511	0	0%	28,534	2,828	10%	4%

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd <sup>3</sup> )	Estimated Volume <sup>1</sup> (yd <sup>3</sup> )	% of Planned	Planned Production (yd <sup>3</sup> )	Estimated Volume <sup>1</sup> (yd <sup>3</sup> )	% of Planned	
Pit 4 Overburden	11,760	11,004	94%	138,880	308,756	222%	92%
CSZ Cleanup	417	2,044	491%	750	28,700	3827%	574%
Total	31,607	63,924	202%	533,861	895,832	168%	77%
<b>Aggregate Production<sup>2</sup></b>							
Drain Gravel	8,500	9,027	106%	132,600	100,516	76%	33%
Liner Bedding	0	800	--	9,250	9,414	102%	102%
Geomembrane Bedding	8,500	8,424	99%	132,600	103,566	78%	27%
Total	17,000	18,251	107%	274,450	213,496	78%	31%

1 - Truck load assumed to be 27 yd<sup>3</sup>

2 – Aggregate production volumes adjusted for volume surveyed on 30 Jun 2021.

### Stormwater Pollution Prevention Plan (SWPPP)

- Halme Construction continued to install silt fence as needed along between West End Road and Blue Creek Road and along Blue Creek Road.

### Spill Prevention, Control, and Countermeasure Activities (SPCC)

- None.

### Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Halme Construction mobilized an excavator, a dozer, and a water truck.

The following equipment was demobilized from the Site during this reporting period.

- Halme Construction demobilized a dozer.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

### Materials:

The following material was delivered to the Site during this reporting period.

- Pipe bedding material for effluent pipeline.
- Coir Mat erosion control blanket

## CONSTRUCTION QUALITY ASSURANCE

### Dust Control and Monitoring

Eight dust monitors operated on site at the locations and for the time intervals listed in Table 2 below. There were three exceedance events above the TSP action level (>260 µg/m<sup>3</sup>) during this time-period. The first event was on Monday (7/12/2021) at sampler ES-7 and was due to dry, dusty site conditions. TSP concentrations ranged from 265 to 293 µg/m<sup>3</sup> and lasted for approximately 45 minutes. The second event started on Tuesday (7/13/2021) and continued through Wednesday (7/15/2021) for all samplers and was due to smoke from local area and

regional fires. The third event occurred on Thursday (7/15/2021) at sampler ES-7 and was attributed to dust from the crushing and screening operations at the HSWRP. The TSP concentration peaked at 262 µg/m<sup>3</sup> and lasted for approximately 5 minutes. Both of the two mine site water trucks (4,000 and 9,000 gallon capacity) and the effluent pipeline water truck (4,000 gallon capacity) were utilized as needed for dust suppression.

**Table 2 - TSP Dust Monitoring Locations during reporting period July 9 – 15, 2021**

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	E	E	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	E	E	D/N
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	E	E	D/N
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	D/N			D/N	E	E	D/N
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	E	E	D/N
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	E	E	D/N
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	E	E	D/N
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	D/N			D/N	E	E	D/N
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

## Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

### CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title	CQC-CQA Issue Date	
2021-13	West Infiltration Collection Channel (WICS) – Finger Drain 2 (Section 11) Subgrade Inspection		
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment <a href="#">Mine Site</a>  Dewatering well pump test was conducted on Friday (5/28/2021).  EPA Comments – <b>Provide a summary report of findings with a final plan for dewatering. If dewatering is necessary, include a schedule for dewatering.</b>	3/19/2021	<b>Conditional Approval Received on 5/11/2021</b>  <b>Summary Report Received by CQA on 7/14/2021 – Stantec to Forward to the EPA</b>  <b>EPA TBD</b>

2021-02	Modifications to Pit 3 Underdrain and Dewatering Sumps <a href="#">Mine Site</a>  <b>Stantec to Prepare Response to EPA Comments (EPA to send any additional comments by 7/15/2021).</b>	6/8/2021	<b>EPA Approval 7/13/2021</b>  <b>Stantec to provide responses to EPA's previous comments</b>
<b>Notice of Non-Compliance</b>			
<b>NNC No. and Dates</b>	<b>Title/Description</b>	<b>CQA</b>	<b>CQA/EPA Response Date(s)</b>
None			
<b>Project RFIs</b>			
<b>RFI No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
HC-2021-05	Use of Low-Pressure Air Test Instead of Hydrostatic Test <a href="#">Effluent Pipeline</a>  Engineer's Response Received 6/17/2021	6/7/2021  6/17/2021	CQA – 7/1/2021 <b>EPA Approval Received 7/15/2021 with Caveats:</b> 1. Follow ASTM F1417-11a 2. For Gravity Pipeline Only
HC-2021-06	NAR Lead-Off Crossing and Pipeline Alignment Adjustment <a href="#">Effluent Pipeline</a>  <b>Design Engineer's Response Received 6/29/2021</b>  <b>EPA Comments Received 7/14/2021 – Stantec Preparing Responses</b>	6/17/2021	CQA – 7/1/2021 <b>EPA - TBD</b>
HC-2021-07	Alignment Offset Variance Request for Area South of West End Road <a href="#">Effluent Pipeline</a>  <b>Design Engineer's Response Received 6/29/2021</b>	6/17/2021	CQA – 7/6/2021 <b>EPA Approval Received 7/13/2021</b>
HC-2021-08	Use of Native Materials for Bedding Source <a href="#">Effluent Pipeline</a>  <b>Waiting for Response Based on Input by STOI – Brian Crossley on Site Tuesday (7/6/2021) – Stantec to Prepare Response based on Results of the Site Walk</b>	6/29/2021	CQA – 7/14/2021 <b>EPA – TBD</b>
2021-05	June 2, 2021 Liner Bedding Gradation Test Results <a href="#">Mine Site</a>	7/6/2021	CQA – 7/13/2021 <b>EPA - TBD</b>
<b>Submittals</b>			
<b>Submittal No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
HC-01575-02.1	Addendum to SPCC – Fuel Tanks <a href="#">Effluent Pipeline</a>  <b>EPA returned with Comments – Discuss with EPA – Sherm to Review for Resolution</b>  <b>Halme to apply for the EPA Tier 1 Qualified Plan and Resubmit</b>	6/10/2021	CQA – 6/14/2021 <b>EPA - TBD</b>

HC-02593-01.1	Engineered Manhole Drawings <a href="#">Effluent Pipeline</a>  <b>Stantec Received: Stamped Structural Calculations, Manufacturer's Certs and Traffic-Rated Concrete Pad Design on 6/23/2021 and approved with comments on 6/28/2021</b>	6/15/2021	CQA – 7/1/2021 <b>EPA Approval Received 7/10/2021</b>
HC-02200-01.1	Gradation Samples for Top/Base Course <a href="#">Effluent Pipeline</a>	6/17/2021	CQA – 6/21/2021 <b>EPA Approval Received 7/13/2021</b>
02272-15	South Pond Geomembrane – 2021 Liner Repairs <a href="#">Mine Site</a>  <b>Waiting for Additional Data from NW Linings- 7/16/2021</b>	6/21/2021	<b>CQA – TBD EPA - TBD</b>
HC-02593-01.1	Rings and Lids for Manholes <a href="#">Effluent Pipeline</a>  <b>On Hold – Waiting for New Design on Rings and Lids</b>	6/24/2021	<b>CQA – TBD EPA - TBD</b>
HC-02200-03.2	Native Screen Bedding Sample Analysis <a href="#">Effluent Pipeline</a>  <b>Gradation Under Review by Design Engineer – Rejected as Out-of-Spec. for Bedding Material</b>  <b>Material to be Used as Trench Backfill – Waiting for Proctor Curve</b>	6/24/2021	<b>CQA – TBD EPA - TBD</b>
02970-08	Temporary Erosion Seed Mix as Installed on June 30, 2021 <a href="#">Mine Site</a>	7/6/2021	<b>CQA – TBD EPA - TBD</b>
01300-05	South Pond Vibrating Wire Piezometer – Product Sheets and Calibration Certs. <a href="#">Mine Site</a>	7/7/2021	<b>CQA – TBD EPA - TBD</b>
02272-16	South Pond Liner Repair Data for June 8 through July 1, 2021 <a href="#">Mine Site</a>	7/7/2021	<b>CQA – TBD EPA - TBD</b>
HC-02200-04	Bedding Sand Gradation Analysis (Inland NW Material) <a href="#">Effluent Pipeline</a>	7/8/2021	CQA – 7/9/2021 <b>EPA Approval Received 7/12/2021</b>
<b>Other Items</b>			
<b>Item</b>	<b>Title</b>	<b>Comments</b>	
None			

Copies of the updated CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

## Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

### **Preparatory Inspections / Meetings**

- FSS Briefing for SCSZ (second FSS) and Upper Overburden Pile

### **Initial Phase Inspections**

- Effluent Pipeline – Ongoing equipment mobilizations

### **Follow-up Phase and Ongoing Inspections**

- Second South CSZ FSS Conducted
- Upper Overburden Pile FSS Conducted
- Mine Waste Placement in Pit 4 – Low activity/low reactivity material from the SWRP, Middle Overburden Pile and South CSZ materials placed - no restrictions on placement.
- Pit 3 Dewatering Pipe – Pipe welds/reports for 10-inch DR11 HDPE Pipe
- Dust Monitoring System – Tracking site-wide alerts and alarms
- Effluent Pipeline – Trenching, bedding and backfill
- Effluent Pipeline – BMPs along Blue Creek Road for temporary road reconstruction
- WICS – Subgrade Inspections
- South Pond Commissioning Checks
- Dewatering Risers – Riser pipe extensions installed (UDS @ 300 ft. total and WRDS @ 260 ft. total)

### **Completion Inspections**

- None

## **THREE WEEK LOOKAHEAD SCHEDULE**

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments
<ul style="list-style-type: none"><li>• Attachment A – Midnite Mine 3 Week Lookahead Schedule</li></ul>
Photos of pertinent items are provided below.





**Figure 1** – Crushing and screening operations at the HSWRP.

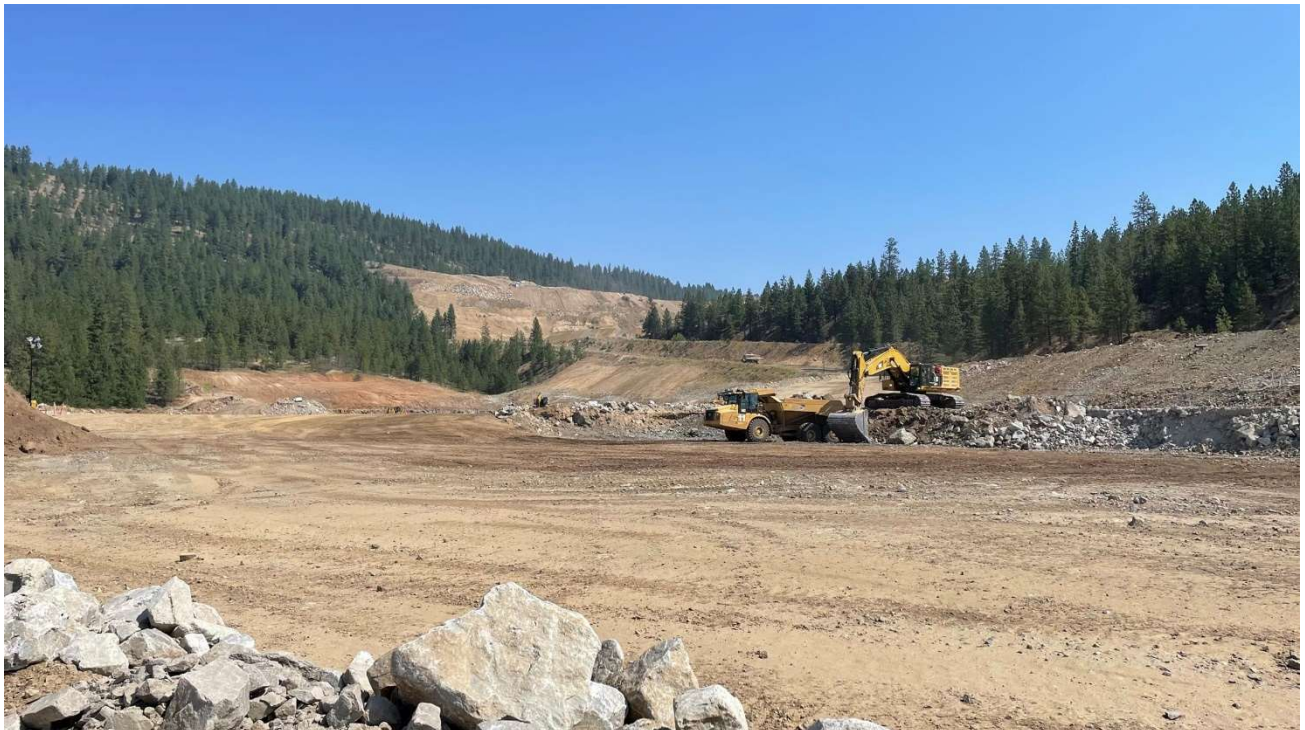


**Figure 2** – View of the CSZ after removal of the topsoil pile and berm along east side of the former CSZ Road, view looking southwest.





**Figure 3** – Progress at Pit 4 Overburden, upper is complete, former access road is being excavated and removed.



**Figure 4** – Excavation loading and hauling of material from South Waste Rockpile –Mid, view looking northeast.





**Figure 5** – View of Pit 4 Overburden – Upper, showing surface generally covered in rock, with bedrock exposed at this location.



**Figure 6** – Infiltration collector figure 2 with GCL installed.





**Figure 7** – View of progress in Pit 4 from the Pit 4 Overlook, view looking south.



**Figure 8** – Effluent Pipeline – working bedding under the haunches of the pipeline





**Figure p** – Effluent Pipeline – Budinger and Associates technician performing nuclear density test on trench backfill.

**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**



Midnite Mine RAWP - Three Week Look Ahead

Data Date: 16-Jul-21

Print Date: 16-Jul-21

Activity ID	Activity Name	RD	% Complete	Start	Finish			Jul 11						Jul 18						Jul 25						Aug 01						Aug 08					
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr				
17. Excavation and placement of materials into Pit #4		100d		29-Mar-21 A	05-May-22																																
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit#	100d	60%	29-Mar-21 A	05-May-22																																
17-1220	Excavate and Haul Pit 4 Overburden middle section	21d	82%	12-May-21 A	13-Aug-21																																
18. Complete Repair of South Pond		11d		23-Apr-21 A	30-Jul-21																																
18-1040	Support South Pond Pumping Station Construction and Commisio	11d	50%	23-Apr-21 A	30-Jul-21																																
18-1150	Commission the South Pond	11d	50%	09-Jul-21 A	30-Jul-21																																
19. Initiate (b) (6) Borrow Area Development		11d		09-Aug-21	23-Aug-21																																
19-1060	Construct monitoring wells in (b) (6) Borrow (Jul/Aug)	11d	0%	09-Aug-21	23-Aug-21																																
20. Haul and place Cover material over the Pit#4 WCA		112d		29-Mar-21 A	23-May-22																																
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	107d	4%	29-Mar-21 A	16-May-22																																
20-1060	Produce Geomembrane Bedding for Pit#4	107d	27%	29-Mar-21 A	16-May-22																																
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	112d	27%	29-Mar-21 A	23-May-22																																
26. Construct the new WTP and Pipeline for discharge		58d		07-Jun-21 A	06-Oct-21																																
26-3070	Erosion Control BMP's & Site Controls	11d	50%	07-Jun-21 A	30-Jul-21																																
26-3090	Material Staging & Pipe Fusing	26d	30%	07-Jun-21 A	20-Aug-21																																
26-3080	Clearing & Grubbing	6d	55%	18-Jun-21 A	23-Jul-21																																
26-3120	Install MH at STA 34+55	3d	80%	15-Jul-21 A	20-Jul-21																																
26-3130	Progress to STA 50+00	7d	0%	20-Jul-21	28-Jul-21																																
26-3360	18" Culvert Installation at West End Approach	1d	0%	26-Jul-21	26-Jul-21																																
26-3370	Roadway Subgrade Prep	5d	0%	27-Jul-21	02-Aug-21																																
26-3140	Progress to STA 66+00	6d	0%	29-Jul-21	05-Aug-21																																
26-3380	Ditch Shaping and Grading	4d	0%	03-Aug-21	06-Aug-21																																
26-3150	Progress to STA 86+00	7d	0%	06-Aug-21	16-Aug-21																																
26-3250	Culvert #1 (~ STA 74+75)	1d	0%	09-Aug-21	09-Aug-21																																
26-3390	Crushed Aggregate Base Course	7d	0%	09-Aug-21	17-Aug-21																																
26-1730	Develop Construction Plans for Discharge system line	30d	0%	11-Aug-21	22-Sep-21																																
26-1740	Develop WTP Construction Work Plans for Approval	30d	0%	11-Aug-21	22-Sep-21																																
26-1780	Effluent Line HDPE Pipe and Materials Purchase and Delivery	40d	0%	11-Aug-21	06-Oct-21																																
27. Produce drain rock and other materials necessary for the sub-waste liner		108d		29-Mar-21 A	17-May-22																																
27-1000	Produce Drain Gravel for Pit 3	108d	33%	29-Mar-21 A	17-May-22																																

Activity ID	Activity Name	RD	% Complete	Start	Finish			Jul 11								Jul 18								Jul 25								Aug 01								Aug 08							
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr							
27-1030	Haul Drain Gravel, Stockpile (301k cy)	108d	33%	29-Mar-21 A	17-May-22	<div><div></div></div>																																									
28. Initiate construct of the Pit#3 sump including initial construction of under		11d		03-May-21 A	30-Jul-21	<div><div></div></div>																																									
28-1250	Install rock fall protection (PH 1)	9d	80%	03-May-21 A	28-Jul-21	<div><div></div></div>																																									
28-1150	Route new temporary line from GW54 to South Pond	11d	80%	09-Jun-21 A	30-Jul-21	<div><div></div></div>																																									
28-1180	Install Pit 3 dewatering system to transfer water to South Pond (2,0	11d	30%	06-Jul-21 A	30-Jul-21	<div><div></div></div>																																									
28-1190	Route Pit #4 temporary dewatering line to South Pond	10d	0%	16-Jul-21	29-Jul-21	<div><div></div></div>																																									
28-1160	Route PCP, Blood Pool, from Pit #3 to South Pond	5d	0%	26-Jul-21	30-Jul-21	<div><div></div></div>																																									